



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/785,108	02/25/2004	Paul Fernand Wilms	SVL920030134US1	8791

45727 7590 08/31/2006

LACASSE & ASSOCIATES, LLC  
1725 DUKE STREET, SUITE 650  
ALEXANDRIA, VA 22314

EXAMINER
----------

SAEED, USMAAN

ART UNIT	PAPER NUMBER
----------	--------------

2166

DATE MAILED: 08/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/785,108

Applicant(s)

WILMS ET AL.

Examiner

Usmaan Saeed

Art Unit

2166

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>2/25/2004</u> .   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

1. Claims 1-38 are pending in this office action.

### ***Claim Objections***

2. Claim 7 is objected to because of the following informalities: Claim 7 depends from claim 7, which is inappropriate. Appropriate correction is required.

### ***Double Patenting***

3. Applicant is advised that should claim 12 be found allowable, claim 18 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

### ***Claim Rejections - 35 USC § 101***

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-38 are rejected under 35 U.S.C. 101 as being directed to non-statutory subject matter. The language of the claims raises a question as to whether the claims are directed merely to an environment or machine which would result in a practical application producing a concrete useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 1-38 are rejected because the claims do not recite a practical application by producing a physical transformation or producing a useful, concrete, and tangible results. To perform a physical transformation, the claimed invention must transform an article of physical object into a different state or thing. Transformation of data is not a physical transformation. A useful, concrete, and tangible results must be either specifically recited in the claim or flow inherently therefrom. To be useful the claimed invention must establish a specific, substantial, and credible utility. To be concrete the claimed invention must be able to produce reproducible results. To be tangible the claimed invention must produce must produce a practical application or real world result.

Claim 29 is rejected because they refer to a system and the system does not have any type of hardware i.e. memory or a processor for any functionality to be realized. As such, it is believed that the system of these claims is directed to non-statutory subject matter.

Claims 30-38 are rejected because they are inconsistent with the specification. The specification does not disclose "usable medium" but instead has storage medium.

Art Unit: 2166

Therefore examiner suggests changing "computer usable medium" to "computer storage medium."

To expedite a complete examination of the instant application the claims rejected under U.S.C. 101 (nonstatutory) above are further rejected as set forth below in anticipation of application amending these claims to place them within the four categories of invention.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Thompson et al. (Thompson hereinafter)** (U.S. Patent No. 6,668,253) in view of **William D. Norcott. (Norcott hereinafter)** (U.S. PG Pub No. 2003/0172091).

With respect to claim 1, Thompson teaches a **method for archiving task information obtained from a data-warehousing environment comprising steps of:**

**“a. obtaining operational metadata from said data-warehousing environment”** as updating load statistics metadata on the data warehouse server, indicating that the information is in a "loading" state (**Thompson** Col 5, Lines 2-4).

**“b. extracting task information from said operational metadata”** as process starts with extracting data from the operational systems (**Thompson** Col 1, Lines 46-47). Retrieving operational data from data sources application using a data flow plan (**Thompson** Col 4, Lines 31-32).

**“c. storing said extracted task information in a buffer”** as loading the data is loaded into an appropriate temporary staging table (**Thompson** Col 4, Lines 34-35).

**“d. refreshing said buffer with changes in said operational metadata”** as the loading of information comprises one of: a round-robin approach used for refresh processing and extracting information from permanent tables (**Thompson** Col 4, Lines 56-59) **“and moving task information from said buffer to an archive”** as staging server obtains data from the data source application via requests and places the data into temporary staging tables to prepare for the transformation and cleansing process prior to movement of the data to the data warehouse server (**Thompson** Abstract).

**Thompson** teaches the elements of claim 1 as noted above but does not explicitly disclose, **“changes in operational metadata.”**

However, **Norcott** discloses, **“changes in operational metadata”** as change set 220 comprises change table 221 and change table 223, which also correspond to respective tables (not shown) on the OLTP database 113. The information that defines the structure of the change sets 210, 220 and change tables 211, 213, 221, 223 is

Art Unit: 2166

maintained in system metadata 230 (**Norcott** Paragraph 0030). The OP 237 column contains a code indicating the type of operation that resulted in the change data (**Norcott** Paragraph 0035).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

Claim 30 is essentially the same as claim 1 except it set forth the claimed invention as an article of manufacture and is rejected for the same reasons as applied hereinabove.

With respect to claim 2, **Thompson** teaches “a method for archiving task information, as per claim 1, wherein said task is an extract, transform, load (ETL) task” as a data flow plan is a set of complex instructions used to extract, transform and load the data into the warehouse (**Thompson** Col 21, Lines 51-53).

Claims 11 and 31 are essentially the same as claim 2 except claim 31 set forth the claimed invention as an article of manufacture and are rejected for the same reasons as applied hereinabove.

With respect to claim 3, **Thompson** teaches “**a method for archiving task information, as per claim 1, wherein said buffer is a staging table**” as loading the data is loaded into an appropriate temporary staging table (**Thompson** Col 4, Lines 34-35).

Claims 12, 18 and 32 are essentially the same as claim 3 except claim 32 set forth the claimed invention as an article of manufacture and are rejected for the same reasons as applied hereinabove.

With respect to claim 4, **Thompson** does not explicitly teach, “**changes in operational metadata are obtained via a trigger mechanism.**”

However, **Norcott** teaches, “**changes in operational metadata are obtained via a trigger mechanism**” as conventional systems have used triggers for synchronous change data capture, either by using the CREATE triggers statement or by using an internal mechanism with equivalent functionality (**Norcott** Paragraph 0008).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.



Claims 14 and 33 are essentially the same as claim 4 except claim 33 set forth the claimed invention as an article of manufacture and are rejected for the same reasons as applied hereinabove.

With respect to claim 5, **Thompson** teaches “**a method for archiving task information, as per claim 2, wherein said ETL task information comprises any of: ETL task execution statuses, run identification numbers, definitions, control flows, and execution schedules**” as Load Completion date/time stamp: Provides the execution date and time of a Sagent's Data Flow Plan. Load Status: Provides the status of the plan whether it was completed or aborted (**Thompson** Col 33, Lines 44-48).

Claim 34 is essentially the same as claim 5 except it set forth the claimed invention as an article of manufacture and is rejected for the same reasons as applied hereinabove.

With respect to claim 6, **Thompson** teaches “**a method for archiving task information, as per claim 2, wherein said archive is queried to report any of: completed tasks, pending tasks, duration of execution, error codes and messages, scheduling problems, scheduling changes, overdue ETL task run schedules, and overdue ETL task misses**” as Load Completion date/time stamp: Provides the execution date and time of a Sagent's Data Flow Plan. Load Status:

Art Unit: 2166

Provides the status of the plan whether it was completed or aborted (**Thompson Col 33, Lines 44-48**).

Claims 22 and 35 are essentially the same as claim 6 except claim 35 set forth the claimed invention as an article of manufacture and are rejected for the same reasons as applied hereinabove.

With respect to claim 7, **Thompson** teaches “**a method for archiving task information, as per claim 7, wherein content of said archive is extracted from and stored in one or more tables**” as (**Thompson Col 2, Lines 30-60**).

Claim 36 is essentially the same as claim 7 except it set forth the claimed invention as an article of manufacture and is rejected for the same reasons as applied hereinabove.

With respect to claim 8, **Thompson** teaches “**a method for archiving task information, as per claim 7, wherein said tables indicate any of: ETL task errors, completed tasks, task temporary status, and task scheduled**” as writing data with an error to an error table along with an error message describing a reason for rejection (**Thompson Col 5, Lines 58-60 & Col 2, Lines 30-60**).

Claims 27 and 37 are essentially the same as claim 8 except claim 37 set forth the claimed invention as an article of manufacture and are rejected for the same reasons as applied hereinabove.

With respect to claim 9, **Thompson** teaches **“a method for archiving task information, as per claim 8, wherein said tables are queried to generate reports comprising any of: sequence of task executed in a process, last task executed, task or tasks failed, duration of execution of tasks in a process, task or tasks retried, and statistics associated with a task run or runs, errors associated with failed tasks, tasks failing with a specified error, task run schedule, de-scheduled tasks, and tasks having a specified temporary status”** as Load Completion date/time stamp: Provides the execution date and time of a Sagent's Data Flow Plan. Load Status: Provides the status of the plan whether it was completed or aborted (**Thompson** Col 33, Lines 44-48).

Claims 28 and 38 are essentially the same as claim 9 except claim 38 set forth the claimed invention as an article of manufacture and are rejected for the same reasons as applied hereinabove.

With respect to claim 10, **Thompson** teaches **“a method for capturing and recording task information obtained from a data-warehousing environment comprising steps of:**

**“a. uniquely identifying each task within a run”** as EIM includes data extraction and movement, data transformation and cleansing, database update and tuning, and database access (**Thompson Col 2, Lines 2-4**). Updating load statistics metadata on the data warehouse server, indicating that the information is in a "loading" state (**Thompson Col 5, Lines 2-4**).

**“b. selecting one or more of said uniquely identified tasks to monitor”** as updating load statistics metadata on the data warehouse server, indicating that the information is in a "loading" state (**Thompson Col 5, Lines 2-4**).

**“c. capturing data-warehousing population activities dynamically by**

**i. obtaining operational metadata containing task information relevant to said selected task or tasks”** as updating load statistics metadata on the data warehouse server, indicating that the information is in a "loading" state (**Thompson Col 5, Lines 2-4**). Process starts with extracting data from the operational systems (**Thompson Col 1, Lines 46-47**). Retrieving operational data from data sources application using a data flow plan (**Thompson Col 4, Lines 31-32**).

**“iii. storing results of said calculating step in a buffer, and moving selected buffer data to an archive”** as staging server obtains data from the data source application via requests and places the data into temporary staging tables to prepare for the transformation and cleansing process prior to movement of the data to the data warehouse server (**Thompson Abstract**).

**Thompson** teaches the elements of claim 10 as noted above but does not explicitly disclose, **“ii. calculating changes in operational metadata.”**

However, **Norcott** discloses, **“ii. calculating changes in operational metadata”** as change set 220 comprises change table 221 and change table 223, which also correspond to respective tables (not shown) on the OLTP database 113. The information that defines the structure of the change sets 210, 220 and change tables 211, 213, 221, 223 is maintained in system metadata 230 (**Norcott** Paragraph 0030). The OP 237 column contains a code indicating the type of operation that resulted in the change data (**Norcott** Paragraph 0035).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

With respect to claim 13, **Thompson** teaches, **“a method for capturing and recording task information, as per claim 10, wherein either one of a system or a user performs said selecting step”** as the user interface (UI) may comprise a task list, buttons/controls for launching components of the system; and a content area for task related data and output (**Thompson** Col 3, Lines 66-67 & Col 4, Line 1).

With respect to claim 15, **Thompson** teaches “**operational metadata and to said buffer**” as retrieving operational data from data sources application using a data flow plan (**Thompson** Col 4, Lines 31-32). Loading the data is loaded into an appropriate temporary staging table (**Thompson** Col 4, Lines 34-35).

**Thompson** teaches the elements of claim 15 as noted above but does not explicitly disclose “**attachment of trigger mechanism.**”

However, **Norcott** discloses “**attachment of trigger mechanism**” as triggers 115 are employed to implement a synchronous change data capture mechanism (**Norcott** Paragraph 0027).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

With respect to claim 16, **Thompson** teaches “**selected task in said operational metadata**” as updating load statistics metadata on the data warehouse server, indicating that the information is in a "loading" state (**Thompson** Col 5, Lines 2-4). Retrieving operational data from data sources application using a data flow plan (**Thompson** Col 4, Lines 31-32).

**Thompson** teaches the elements of claim 16 as noted above but does not explicitly disclose, **“wherein said trigger mechanism attached to operational metadata is activated by changes.”**

However, **Norcott** discloses, **“wherein said trigger mechanism attached to operational metadata is activated by changes”** as triggers 115 are employed to implement a synchronous change data capture mechanism (**Norcott** Paragraph 0027).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

With respect to claim 17, **Thompson** teaches **“a method for capturing and recording task information, as per claim 15, whereupon termination of said selected task; said task status information is extracted from said operational metadata, if said selected task terminates with a failure or warning status, then error messages associated with said selected task or tasks are also extracted from said operational metadata, and said extracted task information is transformed into a format necessary for storage in said buffer”** as process starts with extracting data from the operational systems (**Thompson** Col 1, Lines 46-47). Retrieving operational data from data sources application using a data flow plan (**Thompson** Col 4, Lines 31-32). Capturing error data (**Thompson** Col 24, Line 8).

Load Data Formatting Error Tables--During the Sagent load procedures, insert rows of information into data format error tables with identified format issues (**Thompson** Col 24, Lines 18-20). Loading the data is loaded into an appropriate temporary staging table (**Thompson** Col 4, Lines 34-35).

With respect to claim 19, **Thompson** teaches a **method for capturing and recording task information, as per claim 17, wherein upon termination of said selected task:**

**“b. said buffer is refreshed with changes in said operational metadata before said trigger mechanism was activated”** as the loading of information comprises one of: a round-robin approach used for refresh processing and extracting information from permanent tables (**Thompson** Col 4, Lines 56-59).

**“c. said archive is emptied into a backup medium or media, and said buffer data relevant to said selected task is moved from said buffer to said archive”** as staging server obtains data from the data source application via requests and places the data into temporary staging tables to prepare for the transformation and cleansing process prior to movement of the data to the data warehouse server (**Thompson** Abstract).

**Thompson** teaches the elements of claim 19 as noted above but does not explicitly disclose, **“a. said trigger mechanism attached to said operational metadata is activated.”**



However, **Norcott** discloses, “**a. said trigger mechanism attached to said operational metadata is activated**” as triggers 115 are employed to implement a synchronous change data capture mechanism (**Norcott** Paragraph 0027).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

With respect to claim 20, **Thompson** does not explicitly teach “**the granularity of data moved from said buffer to said archive is variable.**”

However, **Norcott** discloses “**the granularity of data moved from said buffer to said archive is variable**” as main memory 405 can also be used for storing temporary variables or other intermediate information during execution of instructions to be executed by the processor 403 (**Norcott** Paragraph 0064).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

With respect to claim 21, **Thompson** teaches, “**refresh operations on said buffer**” as the loading of information comprises one of: a round-robin approach used for refresh processing and extracting information from permanent tables (**Thompson** Col 4, Lines 56-59).

**Thompson** teaches the elements of claim 21 as noted above but does not explicitly disclose, “**the activation of said trigger mechanisms attached to said operational metadata.**”

However, **Norcott** discloses, “**the activation of said trigger mechanisms attached to said operational metadata**” as triggers 115 are employed to implement a synchronous change data capture mechanism (**Norcott** Paragraph 0027).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

With respect to claim 23, **Thompson** teaches “**a method for capturing and recording task information, as per claim 18, wherein said backup step comprises: selecting archive data to backup, backing up said selected archive data, extracting said selected archive data from said archive, filtering said selected archive data from said archive, and moving to a table said filtered archive data**” as backup frequency and procedures: Daily as part of a full system backup using the full

Art Unit: 2166

FGIS backup solution (**Thompson** Col 15, Lines 13-16). The loading of information comprises one of: a round-robin approach used for refresh processing and extracting information from permanent tables (**Thompson** Col 4, Lines 56-59). EIM provides the ability to create user definable parameters for querying the data warehouse and filtering information (**Thompson** Col 10, Lines 1-3).

With respect to claim 24, **Thompson** teaches “**a method for capturing and recording task information, as per claim 18, wherein said archive is backed up at configured intervals**” as backup frequency and procedures: Daily as part of a full system backup using the full FGIS backup solution (**Thompson** Col 15, Lines 13-16).

With respect to claim 25, **Thompson** teaches “**a method for capturing and recording task information, as per claim 19, wherein said buffer data to be backed up is associated with a current timestamp**” as Load Completion date/time stamp: Provides the execution date and time of a Sagent's Data Flow Plan. Load Status: Provides the status of the plan whether it was completed or aborted (**Thompson** Col 33, Lines 44-48).

With respect to claim 26, **Thompson** teaches “**a method for capturing and recording task information, as per claim 25, wherein said current timestamp is utilized in backup restoration**” as Load Completion date/time stamp: Provides the

execution date and time of a Sagent's Data Flow Plan (**Thompson** Col 33, Lines 44-48).

With respect to claim 29, **Thompson** teaches a **data-warehousing environment system for capturing and recording task information comprising:**

**“a. task information extracted from operational metadata”** as updating load statistics metadata on the data warehouse server, indicating that the information is in a "loading" state (**Thompson** Col 5, Lines 2-4). Process starts with extracting data from the operational systems (**Thompson** Col 1, Lines 46-47). Retrieving operational data from data sources application using a data flow plan (**Thompson** Col 4, Lines 31-32).

**“c. staging table storing said task information”** as loading the data is loaded into an appropriate temporary staging table (**Thompson** Col 4, Lines 34-35).

**“e. an archive table storing task information from said staging table”** as staging server obtains data from the data source application via requests and places the data into temporary staging tables to prepare for the transformation and cleansing process prior to movement of the data to the data warehouse server (**Thompson** Abstract).

**Thompson** teaches the elements of claim 29 as noted above but does not explicitly disclose, **“Attachement of the trigger mechanism.”**

However, **Norcott** discloses, **“Attachement of the trigger mechanism.”** as triggers 115 are employed to implement a synchronous change data capture mechanism (**Norcott** Paragraph 0027).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of the cited references because **Norcott's** teachings would have allowed **Thompson** to provide a synchronous change data capture system that can be transactionally consistent without a costly post processing phase.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is listed on 892 form.

### ***Contact Information***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usmaan Saeed whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2166

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Usmaan Saeed  
Patent Examiner  
Art Unit: 2166



Leslie Wong  
Primary Examiner

US  
August 30, 2006